MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

BWD2024 – WEB APPLICATION DEVELOPMENT
(All sections / Groups)

3 MARCH 2016
9.00 a.m. - 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 5 pages (including cover page).

2. Answer all questions. All questions carry equal marks.

3. Please write all your answers in the answer booklet provided.

Question 1 (25 Marks)

a) Briefly define the following terms related to Web application development.
                                                    (12 x 1 = 12 Marks)

i.	JavaScript	ii.	Website
iii.	URL	iv.	Web browser
v.	Apache	vi.	HTML
vii.	SGML	viii.	HTTP
ix.	Web server	x.	Domain Name
xi.	HTTPS	xii.	CSS

b) Explain the design of a three-tier client/server system with an example   (13 Marks)

Question 2 (25 Marks)

a) What would be printed when the below PHP script executed?   (10Marks)

```
<html>
<body>
<?php
  $marks = array(
            "mohammad" => array
            (
            "physics" => 35,
            "maths" => 30,
            "chemistry" => 39
            ),
            "qadir" => array
        (
        "physics" => 30,
        "maths" => 32,
        "chemistry" => 29
        ),
        "zara" => array
        (
        "physics" => 31,
        "maths" => 22,
        "chemistry" => 39
```

Continued...

```
            )

        );

    echo "Marks for mohammad in physics : " ;
    echo $marks['mohammad']['physics'] . "<br />";
    echo "Marks for qadir in maths : ";
    echo $marks['qadir']['maths'] . "<br />";
    echo "Marks for zara in chemistry : " ;
    echo $marks['zara']['chemistry'] . "<br />";
?>
</body>
</html>
```

b) Functions in programming force developers to think in abstract terms (define input and output values, set global and local scope, and turn specific tasks into generic components.) they encourage better software design and help in creating extensible applications.

Give example of the following function types.   (5 Marks)
- i. Functions without parameters   (5 Marks)
- ii. Functions with parameters and no values returned   (5 Marks)
- iii. Functions with parameters and values returned

Question 3 (25 Marks)

```php
<?php
$auth = 1;
$status = 1;
$role = 4;

$result1 = (($auth == 1) && ($status != 0));
print "result 1 is $result1<br />";

$result2 = (($status == 1) || ($role <= 2));
print "result 2 is $result2<br />";
$result3 = !($status == 1);
print "result 3 is $result3<br />"; ?>
```

Continued…

(a) Explain the operators **&&, ||,** and **!** used in the above PHP script. What would you get when you execute the above PHP script?   (10 Marks)

(b) Explain the errors and rewrite the codes with correct PHP scripts.   (5 x 3= 15 Marks)

    i.   for($x = 11; $x >= 10; $x++)
                echo $ x;

    ii. $counter = 1;
                while ($counter >= 0)
                $total += $counter;

    iii.   if ($color = = 2)
                    echo "Red";
                else;
                    echo "Blue";

    iv. $ x = array (8, 2, 54, 3, 7);
                  for($i=0; $i > sizeof($x); $i++)
                  {
                echo $x[i];

    v.   if ($number =! 6)
                echo "you win!!";

Question 4 (25 Marks)

Student Registration Form

Identification Number	
Name	
Major	
Course	
	Register	Reset

Continued…

Assume that you have created a database "MMU" with username "admin" and password "test1234". This database has a table student which can store data from the html form as given here.

Write PHP scripts for the following tasks.

a) Connect to the MySQL database server and select "MMU" database   (10 Marks)

b) Insert the data from the HTML form into the "student" table with appropriate error handling technique. (Note. If there is any error, display the error along with the sql query.)   (15 Marks)

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